



***BEING GREEN HAS NEVER LOOKED SO COOL!***



# **EMU Trike**

Electric Multi Use Trike

## **Owners Manual**

2012-2013

Models – EMU-Mini & EMU-Max

American Scooter Company, L.L.C.

Please note that due to continuing improvements to our products and services, pictures and/or descriptions may differ from the model and/or parts depicted in this manual.

**READ THIS MANUAL COMPLETELY BEFORE ASSEMBLING  
AND RIDING**

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## Technical Information

Type of Motor	48V Permanent Magnet Brushless DC Motor
Motor Power	350W (Mini) 500W (Max)
Battery Type	Sealed Lead Acid Batteries (Mini) x 4 Lithium Batteries (Max)
Battery	14AH 48V
Charger	UL Approved 110v
Charging Time	4-8 hours
Rated Speed (2 speed)	Mini 0-5mph & 0-15mph* Max 0-8mph & 0-20mph *
Single Charge distance	Mini Up to 15 miles* Max up to 20 miles*
Maximum Capacity	285 lbs
EMU. Net Weight	Mini around 90 lbs Max around 70 lbs

\*Note: Speed and distance may vary depending upon the terrain and weight load.

# Warning Statement

## **STOP ----- IMPORTANT!**

Before you ride your EMU please read this carefully:

Your existing insurance policy may not provide coverage for your EMU trike or electric vehicles. You should contact your insurance company to confirm if coverage is provided.

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Please do not ride your EMU until you have read this owners manual completely and you fully understand all its contents. This manual contains critical information for your safety. If you have any questions about the safe operation of your EMU, you should contact your authorized EMU dealer.

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It is very important that you follow all the safety instruction within this manual in order to ensure maximum safety.

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Failure to comply with all the standards outlined in this manual could result in fire/ or serious injury.

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American Scooter Company or authorized dealers will not be liable for any damage or injuries caused by unsafe or faulty assembly or unauthorized repairs. Any repairs carried out by unauthorized service technicians are the sole responsibility of the owner and the Warranty becomes void. Always follow local laws to where you can ride your EMU.

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Our EMU range of products are designed to be ecologically conscious, please dispose of used batteries in compliance with local laws.

# Safety Warning

## (Please read before riding your EMU)

Before riding your EMU please read and be sure you understand this manual completely. The EMU is not a toy and should always be operated in a safe manner. American Scooter Company will not be liable for any damages or injuries to any person. Any questions you may have about the safe operation of your EMU should be directed to your authorized dealer.

Failure to comply with the safety warnings and operating instructions included in this manual could result in serious injury to the operator and to others.

The EMU is not designed for all user repairs. An authorized EMU repair technician should carry out repairs. American Scooter Company will not be liable for any damage or injuries due to repairs by unauthorized individuals.

**The EMU should only be operated by individuals 16 years of age or older.  
The EMU is not a toy and should always be used responsibly.**

### Safety Instructions

- ✓ Always wear approved safety equipment when operating the EMU.
- ✓ Observe the maximum weight capacity of 265 lbs.
- ✓ No more than one person should ride the EMU at a time.
- ✓ The EMU should always be operated in a safe manner under safe conditions. Observe local laws.
- ✓ Before riding, inspect the EMU to insure all quick releases and pivot points are secured properly. Make sure handlebars are secured and hand brake is in operating condition.
- ✓ Check the battery to insure it is properly charged.
- ✓ The power ignition must be off when charging.
- ✓ Remove your EMU from charge once it is charged. Do not leave charger plugged in any longer than 8 hours.
- ✓ Charge the battery after when required.
- ✓ Do not expose the EMU, batteries or charger to wet conditions.
- ✓ Always drive on paved surfaces.
- ✓ Be careful when riding on wet or uneven surfaces.

# EMU Parts List

- |                                 |                                 |
|---------------------------------|---------------------------------|
| 1. Front Wheel                  | 11. Green Button for Horn       |
| 2. Drum Brake                   | 12. Handlebar height adjustment |
| 3. Electric motor               | 13. Power Indicator (pod)       |
| 4. Headlight (pod)              | 14. Seat Post (Optional)        |
| 5. Front fork                   | 15. Seat Height Adjustment      |
| 6. Basket (optional)            | 16. Handbrake                   |
| 7. Folding Handlebar Connection | 17. Safety Wheels               |
| 8. Ignition Key (pod)           | 18. Rear Wheels                 |
| 9. Throttle                     | 19. Battery Cover               |
| 10. Headlight Switch            | 20. Electrical Connectors       |

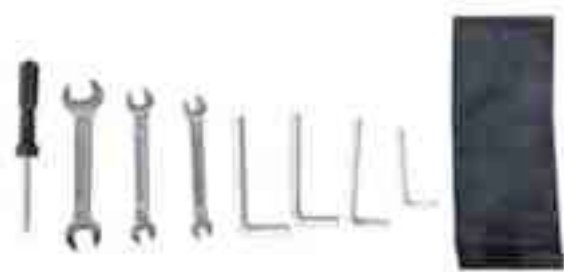


## Tool Kit

Charger



Tool Kit

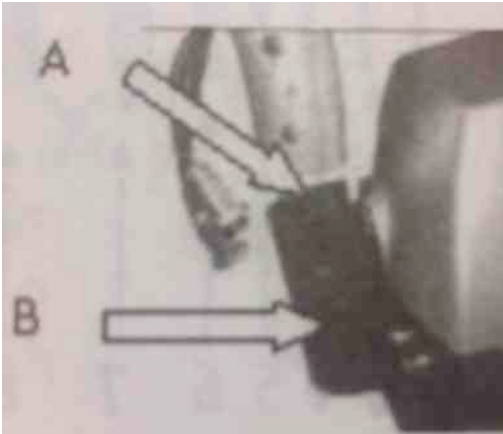


## Assembling the EMU



1/ Unpack the E.M.U. and inspect all the parts to insure all are included. Please contact your E.M.U. dealer immediately if any parts are missing or damaged when shipped.

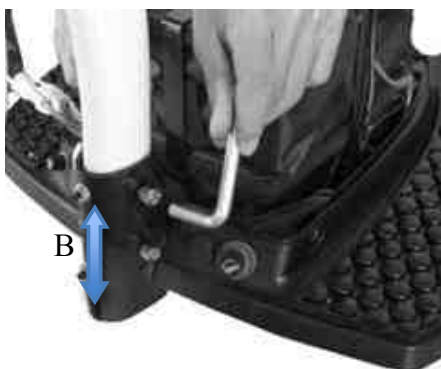
Place your E.M.U. on a flat, clean surface. Place a block 3.5" under the front, by the battery. This will make it easier for the next step.



2/ Remove the bolts and nuts from the connecting tube clamp (B). place the connecting tube into the top opening (A). Align the bolt holes.



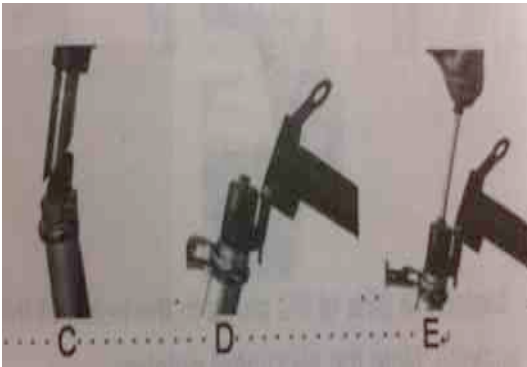
3/ Slide the two bolts (1) through the holes connecting tube and neck. Twist the bolts, do not hammer them through.



4/ Tighten the bolts and nuts (2) using the 2 allen wrenches in the tool kit. Also tighten the small bolts on the outside of the tube clamp securely (B). Note some models may have hex bolts instead.



## Installing the Handlebar



Extend the handlebar tube to full upright position and insert it into the connection hole on the front forks.

6/ Ensure the handlebars are facing front with the brake on the left and the throttle on the right, then tighten the handle bar hex bolt securely. Fold handlebar down to the left hand side and tighten hex bolt

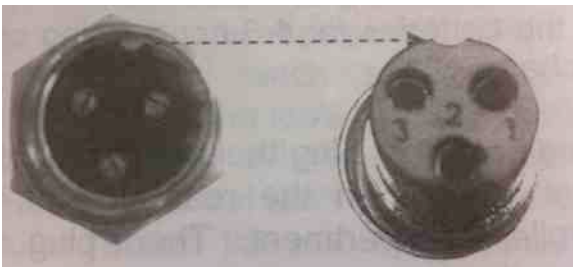


**Hex Bolt**

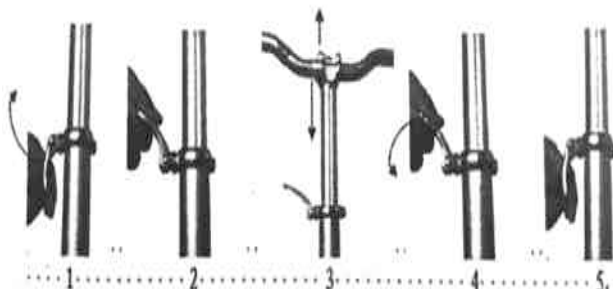
## Connecting the Electrical power plugs



6/ Make sure you connect the 4 the connectors to the right outlets. You will damage your emu electrics if you connect them wrong. All connectors are color-coded.



7/ Match the pins of the plugs to the holes of the sockets, align the notches and secure.



8/ The height of the handlebars can be adjusted by opening the quick clip release the raise the handlebars by pulling or pushing on the crossbar, then firmly closing the quick release clip.

## Removal of Battery Cover (service only)



Undo the 4 screws (one on each side of the cover and 2 on the back).



Gently pull the cover upwards to remove.



Reverse operation 1 & 2 to re-install cover. Be careful not to trap wires when putting the cover back on.

# Important Manual Update

**Please read this before you assemble your EMU-MAX 2013**

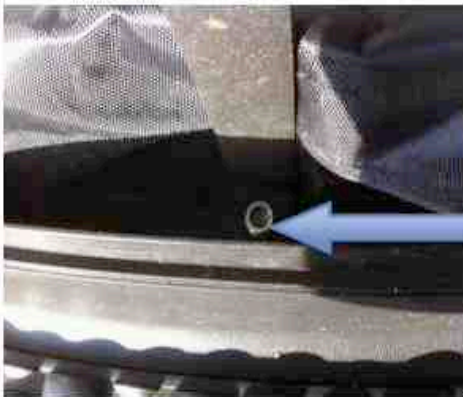
**Your EMU-MAX comes with the batteries disconnected**

The following instructions will explain how to re-connect the battery.



1/ Undo the four silver screws that hold the battery cover, two on the back and one each side of the battery cover with the Phillips screwdriver provided in your tool bag.

2/ Gently lift the white cover upwards exposing the battery compartment. Ensure that the four metal screw tabs remain in place.



3/ You will notice a black metal strap that holds the battery and controller securely. Undo the hex screws with the allen key provided in your tool bag.

4/ Remove the black metal strap being careful not to snag any wires.



5/ Down in the battery compartment on the left hand side you will find a black wire with a three-pin plug on the end. Gently pull the cable to reveal the plug.

6/ This plug needs to be connected to the connector on the side of the battery. The connector is protected underneath the black cloth cover on the side of the battery.

7/ Carefully lift the one side of the battery about 2 inches then push the plug securely into the connector.

8/ Re-cover the connection with the black cloth.

9/ Securely Re-install the metal strap with the hex screws and re-fit the battery cover following steps 4/3/2/1

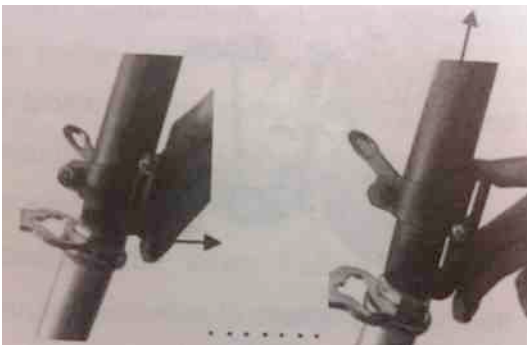
10/ Switch on the key and the green lights should illuminate on the light pod indicating you have power.

## Folding the Handlebar



Turn off the ignition key

Release the silver quick clip



Lift the silver clip bar from the bottom, at the same time pull upwards on the handlebar tube. Note the handlebar remain attached to pole. Fold down handlebars. Carefully place the handlebar tube on the footrest frame. Reverse this procedure to re-attach handlebar.



Picture of EMU handlebar folded. Note arrow show the direction they fold.

## Installing the Basket



Position the basket as shown. The “U” Bracket attaches to both sides of the forks, in the middle of the three holes.



Attach the basket to the “U” bracket using the included hardware.



Attach the back of the basket to the mounting bracket using the included hardware.



## Charging the Batteries

Before riding your EMU for the first time, the unit should be fully charged. Ride your EMU until the battery is fully discharged before recharging it. Doing this 3-5 times will insure maximum battery efficiency and scooter performance. Once this has been done, for best results.

The lead acid batteries in the MINI should be recharged frequently, at least once every 30 days for longest battery life. Leaving the battery uncharged for more than 3 months will significantly decrease the battery lifespan. If you are not going to use your EMU-MINI remove the fuse from the blue connector under the battery cover.

To charge the batteries, plug the charger into the socket located at the rear of the battery compartment, then plug the charger into the wall outlet. The light on the charge will be red when the unit is charging the batteries. When the light turns green, the charge is complete. **Always plug the charger into the trike before the outlet.**



Be sure the charger is properly connected to the EMU. The connector is indented so that it will fit only one way. Do not force the connection. It should slide easily into the unit when correctly aligned.

### **WARNING**

**Never leave the charger plugged into either the EMU or electric outlet for longer than 8 hours.**  
**Leaving your charger connected for a long period can cause a fire.**

# Riding your EMU

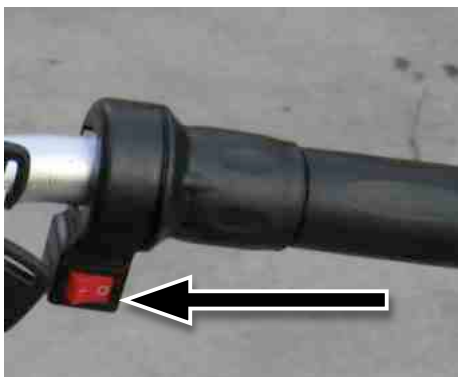
## **Always wear a helmet when riding the EMU**

If you are using your EMU outdoors please be aware of all state and local laws governing the use of such vehicles. State and local ordinances may vary and it is your responsibility to make sure you comply with all applicable laws.



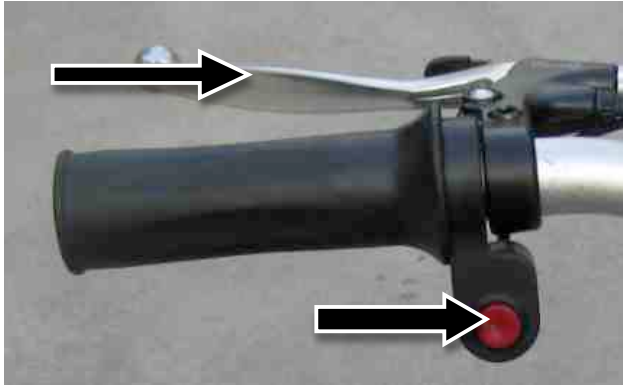
First, put the key in the ignition switch located on the right side of the light pod. Turn the key to the first “On” position. The first ON position is ignition/ power .The second ON position is for the additional headlight.

The battery gauge on the pod and will illuminate, indicating the battery is engaged. At full power the entire gauge will be illuminated. As the power decreases, the lights go out starting with the right side moving to the left. When there is no illumination, the battery is completely drained and your EMU must be recharged. The single red light shows when headlight is on.



The speed switch is just below the throttle, located on the right side of the handlebar to the (-) position is slow speed. Position (o) is high speed. The throttle is a twist grip. Twist down slowly to increase speed. The throttle is very sensitive so be very careful until you get used to the speed and sensitivity.





To stop your E.M.U., disengage the throttle and apply pressure to the handbrake. Beware the brake is very sensitive. When the brake is applied this kills the power to the throttle

If you are parking your scooter on an incline, engage the handy parking brake by tightly holding the hand brake and pushing the black parking brake paddle towards you. Pull the handbrake lever towards you to release.

When parking the scooter, always remove the key for additional security.

The red switch is the horn.



To adjust the seat, undo the quick release then push in brass button and adjust as required.

To remove the seat pole undo the two bolts and then lift seat pole up. When installing the seat make sure these bolts are tight.

# IMPORTANT EMU-MAX Security System Key

Information on how to use your remote EMU-MAX Security system key



**Alarm Set**

**Alarm Cancel**

**Remote Power**

**Personal Alarm**

**Alarm Set:** Press this button to set your alarm. You will hear two chirps.

**Alarm Cancel:** Press this button to switch off alarm.

**Auto Power on/ off:** Press this to switch on and off your EMU without using your key.

**Personal Alarm:** Press and hold for personal alarm.

Your remote alarm is designed to deter anyone from stealing your EMU-MAX. To set the alarm, simply press the Alarm set button. You will hear 2 chirps and after 5 seconds the alarm is set. The EMU alarm will activate when someone tries to move your EMU. It will omit a loud 125-decibel siren, plus all the wheels will automatically lock to prevent it from being pushed. To switch off the alarm simply push the Alarm cancel button you will hear 2 chirps to confirm.

The Remote power button is designed to power up and switch off your EMU without having to use your ignition key. (Please note you need the key to switch on the lights)

The personal alarm button omits a loud beep when this button is held in.

**Remember your EMU alarm is only a deterrent. Always leave you EMU in a safe and secure place.**

**American Scooter Company or Authorized dealers will not be held responsible for theft of your EMU**

SECMAX111012.1

## Adjusting Brakes



In order to adjust the sensitivity of the hand brake, either tighten or loosen the wire shown on the left. First loosen the nut and then push the wire back toward the brake to lessen sensitivity, or pull the wire to increase sensitivity.

# Maintenance

Your EMU requires minimum maintenance to give you years of service. Always follow these simple procedures before your ride.

- Make sure battery is fully charged.
- Never leave battery uncharged for more than 30 days, as this will negatively impact performance and battery lifespan.
- Inspect all connections each time you ride to insure nothing is loose and wires are not frayed or damaged.
- Make sure tires are inflated to their proper pressure as indicated on the tires.
- Test brakes to insure they are operating before increasing speed.
- Properly adjust helmet to each rider for maximum protection.
- Oil bearings in rear wheels every 90 days.
- Never leave your EMU in the rain.

## Battery Replacement

Battery replacement should be done by an EMU authorized service dealer or anyone with simple technical skills. The batteries are located in the battery compartment on the footboard. To access the batteries, remove the screws that hold on the battery cover and carefully disconnect the wires from the battery terminal, marking each wire to ensure that it will be reconnected to the correct connector. Replace the batteries and reconnect the wires to the correct connectors. Replace and secure the cover. Fully charge the batteries before attempting to use.

## Trouble Shooting

Problem	Most Likely Cause
The key is in the ON position, but the EMU does not move.	The battery may not be adequately charged. Check the battery level indicator on the pod. If the red lights are not illuminated, charge the battery before using the EMU. Check reset button. The brake may be engaged. Disengage the brake.
The EMU rides roughly and is difficult to steer.	Check the tire inflation before operating the EMU. Check this regularly to insure safe operating.
The handlebar wobbles and doesn't feel tight.	Immediately stop operation and check to insure all connections have been tightened sufficiently.
EMU doesn't brake completely.	Brakes may need adjusting. See brake adjustment in this manual or Contact your EMU dealer.
EMU will not recharge within 10 hours.	Check connector is correctly inserted into back of your EMU. Check power to outlet. Battery may be malfunctioning. Contact your EMU dealer.

## **Warranty**

The Limited Warranty does not cover or apply to the following: Normal wear & tear: any damage, failure and/or loss caused by accident, misuse, neglect, abuse and/or failure to follow the instructions or warnings as indicated on the EMU trike or within this owners manual or other printed material provided with this product. Damage, failure and/or loss caused by the use of the EMU in any manner for which such products were not specifically designed.

American Scooter Company/authorized dealer warrants each new EMU for six (6) months according to the following terms: Batteries and tires are warranted for three (3) months. This Warranty extends to the original retail purchaser only and commences on the date of the original purchase. Extended Warranties above the six (6) months are at the discretion of American Scooter Company or Authorized dealer. If sold as a used product, the warranty is for 30 days from date of purchase. Any part of the EMU product manufactured or supplied by American Scooter Company/ Authorized dealer and found to be defective in material or workmanship will be repaired or replaced by either American Scooter Company or authorized dealer without charge for parts or labor. American Scooter Company or authorized dealer is responsible for the expense of delivering or shipping the Warranty replacement parts. However, if the customer chooses not to replace the parts, the expense of delivering the EMU trike product to either American Scooter Company or authorized dealer for Warranty work or the expense of returning it back to the owner after repair or replacement will be paid by the owner. American Scooter Company, authorized dealer's responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of Warranty shall be cause for cancellation or rescission of the contract of sale of any EMU product. Written proof will be required showing proof of purchase and date of purchase to substantiate any Warranty claim. American Scooter Company or authorized dealer must perform all Warranty work, or prior written permission from American Scooter Company or authorized dealer for repairs by other. The warranty is limited to thirty (30) days from the date of purchase for any EMU trike that is used for rental, demonstration or commercial purposes or any other income producing purpose. This Warranty does not cover any Emu trike that has been subject to misuse, neglect, negligence or accident, or operated in any way contrary to the operating instructions as specified in the EMU owners manual. This warranty does not apply to any damage to the EMU trike that is the result of improper maintenance or to any EMU trike that has been altered or modified so as to adversely affect the products operation, or performance or durability or that has been altered or modified to change its intended use. This Warranty does not extend to repairs made necessary by normal ware and or by use of parts that are incompatible with EMU products. In addition this Warranty does not cover items that experience normal wear and tear. American Scooter Company or Authorized dealer reserves the right to improve the design of any product without assuming any obligations to modify any product previously manufactured. All Warranties are limited in duration to the six (6) months Warranty period or extended Warranty if purchased or agreed in writing. Any such implied Warranties including merchantability, fitness for a particular purpose or otherwise are

